SF-780PCT

CLAIMS
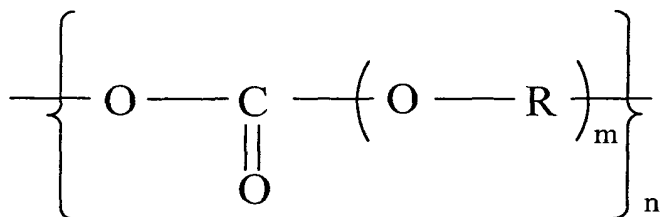
1.   A resin composition comprising:

30 to 95 parts by weight of a biodegradable polylactic acid resin (A), and

70 to 5 parts by weight of a polyalkylene carbonate (B) of the following formula (I), providing that the sum of components (A) and (B) is 100 parts by weight, and
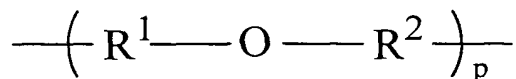
satisfying that a pressed film of 0.1 mm thickness formed therefrom has a haze of 40% or less,

$$\left[O - \underset{\underset{O}{\parallel}}{C} \left(O - R \right)_m \right]_n$$

(I)

wherein R represents at least one group selected from the group consisting of an ethylene group, a propylene group and a group of the general formula:

$$\left(R^1 - O - R^2 \right)_p$$

(II)

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(wherein each of R^1 and R^2 independently represents
an alkylene group having 2 to 6 carbon atoms; and p is an
integer of 1 to 15);

m is an integer of 1 to 15; and

5   n is an integer of 3 to 15,000.

2.   The resin composition as claimed in claim 1, comprising:

40 to 90 parts by weight of the biodegradable polylactic
acid resin (A), and

10   60 to 10 parts by weight of the polyalkylene carbonate
(B), providing that the sum of components (A) and (B) is
100 parts by weight, and

satisfying that a pressed film of 0.1 mm thickness
formed therefrom has a haze of 40% or less.

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3.   The resin composition as claimed in claim 1 or 2, wherein
the polyalkylene carbonate (B) is polyethylene carbonate.

4.   The resin composition as claimed in any of claims 1
20   to 3, further satisfying that a pressed film of 0.5 mm
thickness formed therefrom, has a Young's modulus at 23°C
of 2500 MPa or less.

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5.   The resin composition as claimed in any of claims 1 to 4 further satisfying that a pressed film of 0.1 mm thickness formed therefrom, has a carbon dioxide permeability coefficient at 25°C of 85 cc mm/m^2 day atm or less.

6.   A molded article made of the resin composition claimed in any of claims 1 to 5.

7.   The molded article as claimed in claim 6, selected from the group consisting of a film, an oriented film, an injection-molded product, a blow-molded product, a laminate, a tape, a nonwoven fabric and a yarn.